

Applicant(s): James F. Hainfeld, et. al.

Examiner:

Unassigned

Serial No:

10/705,614

Art Unit:

Unassigned

Filed:

November 10, 2003

Docket:

16049Z

For:

METHODS OF ENHANCING

Dated:

December 16, 2003

RADIATION EFFECTS WITH METAL NANOPARTICLES

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

- 1. United States Patent No. 5,521,289, issued to James F. Hainfeld, et. al., dated May 28, 1996;
- 2. United States Patent No. 6,001,054, issued to D. F. Regulla, et. al., dated December 14, 1999;

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on December 16, 2003.

Dated: December 16, 2003

Philip Braginsky

- 3. United States Patent No. US 6,369,206 B1, issued to Robert D. Leone, et. al., dated April 9, 2002;
- 4. Manuel H. Castillo, et. al., "Effects of Radiotherapy on Mandibular Reconstruction Plates", <u>The American Journal of Surgery</u>, Vol. 156, pp. 261 263, (1988);
- 5. D. F. Regulla, et. al., "Physical and Biological Interface Dose Effects in Tissue due to X-Ray Induced Release of Secondary Radiation from Metallic Gold Surfaces", Radiation Research, Vol. 150, pp. 92 100, (1998);
- 6. Indra J. Das, et. al., "Backscatter dose perturbation in kilovoltage photon beams at high atomic number interfaces", <u>Medical Physics</u>, Vol. 22, No. 6, pp. 767 773, (1995);
- 7. D. M. Herold, et. al. "Gold microspheres: a selective technique for producing biologically effective dose enhancement", <u>International Journal of Radiation Biology</u>, Vol. 76, No. 10, pp. 1357 1364, (2000); and
- 8. Hiromichi Matsudaira, et. al., "Iodine Contrast Medium Sensitizes Cultured Mammalian Cells to X Rays but not to γ Rays", <u>Radiation Research</u>, Vol. 84, pp. 144 148, (1980).

Pursuant to 37 C.F.R. §1.98(d), copies of the above listed references are not provided, as these references were previously submitted to the Examiner in connection with parent case, U.S. Serial Number 10/387,059 filed on March 12, 2003.

Consideration of this Information Disclosure Statement is respectfully requested, since the art provided may be material to the examination of the present application as filed under 37 C.F.R. §1.56.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R §1.97(b), no statement or fee is required.

Respectfully submitted

Philip Braginsky, Esq.

Registration No. 40,527

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INFORMATION DISCOSURE CITATION (Use several sheets if necessary) OEC 1 9 2003					Docket Number (Optional) 16049Z		Application Number 10/705,614		
					Applicant(s) James F. Hainfeld, et. al.				
					Filing Date November 10	Group Art Unit Unassigned			
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME C		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5,521,289	5/28/96	James F. Hainfeld, et. al.					
		6,001,054	12/14/99	D. F. Regulla, et. al.		-			
		US 6,369,206 B1	4/9/02	Robert D. Leone, et. al.					
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FOREIGN PATENT DOCUMENTS									
()	REF	DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
Manuel H. Castillo, et. al., "Effects of Radiotherapy on Mandibular Reconstruction Plates", The American Journal of Surgery, Vol. 156, pp. 261 - 263, (1988)									
		D. F. Regulla, et. al., "Physical and Biological Interface Dose Effects in Tissue due to X-Ray Induced Release of Secondary Radiation from Metallic Gold Surfaces", Radiation Research, Vol. 150, pp. 92 - 100, (1998)							
		Indra J. Das, et. al., "Backscatter dose perturbation in kilovoltage photon beams at high atomic number interfaces", Medical Physics, Vol. 22, No. 6, pp. 767 - 773, (1995)							
		D. M. Herold, et. al. "Gold microspheres: a selective technique for producing biologically effective dose enhancement", <u>International Journal of Radiation Biology</u> , Vol. 76, No. 10, pp. 1357 - 1364, (2000)							
		Hiromichi Matsudaira, et. al., "Iodine Contrast Medium Sensitizes Cultured Mammalian Cells to X Rays but not to Y Rays", Radiation Research, Vol. 84, pp. 144 - 148, (1980)							
EXAMINER DATE CONSIDERED									
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT Docket No. (Under 37 CFR 1.97(b) r 1.97(c)) 16049Z In Re Application Of: James F. Hainfeld, et al. Serial No. Filing Date Examiner **Group Art Unit** 10/705,614 November 10, 2003 Unassigned Unassigned Title: METHODS OF ENHANCING RADIATION EFFECTS WITH METAL NANOPARTICLES Address to: DEC 1 9 2003 Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 37 CFR 1.97(b) The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114. 37 CFR 1.97(c) The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of: ☐ the statement specified in 37 CFR 1.97(e); OR the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT Docket No. (Under 37 CFR 1.97(b) or 1.97(c)) 16049Z In Re Application: James F. Hainfeld, et al. Serial No. Filing Date Examiner **Group Art Unit** 10/705,614 November 10, 2003 Unassigned Unassigned METHODS OF ENHANCING RADIATION EFFECTS WITH METAL NANOPARTICLES Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Director is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below. Charge the amount of Credit any overpayment. Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Mailing by First Class Mail I certify that this document and authorization to charge deposit I certify that this document and fee is being deposited account is being facsimile transmitted to the United States on 12/16/03 with the U.S. Postal Service Patent and Trademark Office (F: as first class mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 450, Alexandria, VA 22313-1450. (Date) Signature Signature Philip Braginsky Typed or Printed Name of Person Signing Certificate Typed or Printed Name . This certificate may only be used if paying by deposit account. Dated: December 16, 2003 Signature Philip Braginsky Registration No. 40,527 Scully, Scott, Murphy & Presser 400 Garden City Plaza Garden City, New York 11530 (516) 742-4343 cc: PB/XZ:ab